

PERTH CHILDREN'S HOSPITAL WA
FAÇADE AREA: 17041M2
ARCHITECTS: COX HOWLETT &
BAILEY WOODLAND, BILLARD
LEECE PARTNERSHIP WITH HKS
BUILDER: JOHN HOLLAND
PRODUCTS: DGU TRIPLE
LOW-E NATURAL CLR 65
COATING ON CLEAR; 17.52MM
LAMINATED GLASS WITH WHITE
CERAMIC FRIT PATTERN

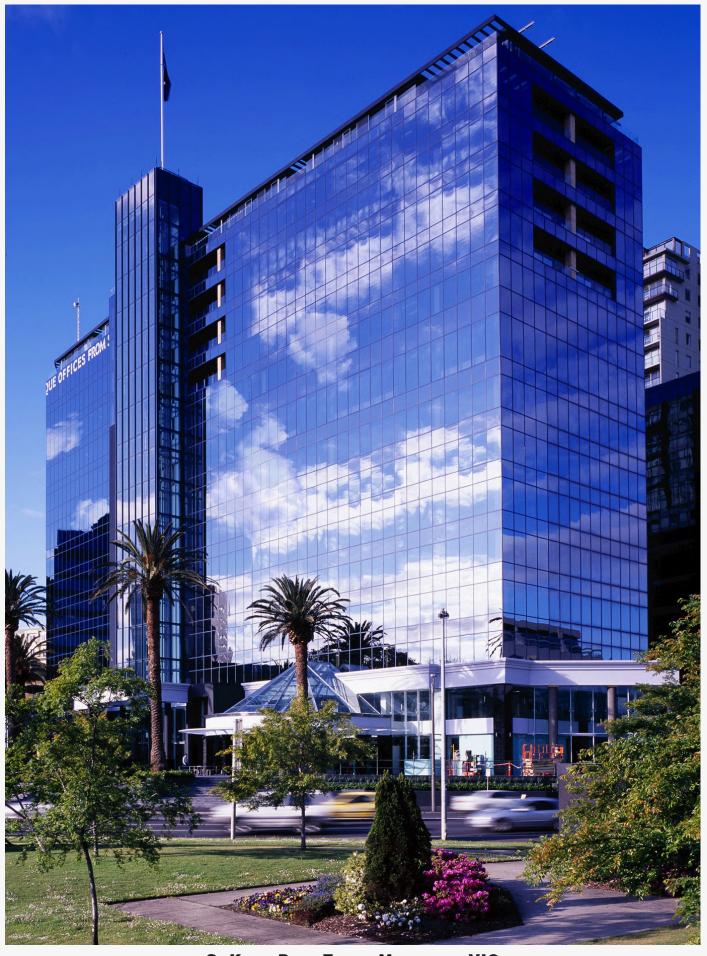


### **ABOUT Us**

ASG (formerly known as CSG Australia), has been established in Australia for over 20 years, in which we have become one of the largest suppliers of architectural glass by adhering to our philosophy of putting innovation and customers first.

Our success is built upon understanding our customers' needs and maintaining stringent manufacturing standards, while ensuring the optimisation of energy efficiency in contemporary Australian building innovations.

From float glass, laminated glass, solar reflective coatings, Low-E DGUs, ceramic frit application, and customised innovations, ASG's diverse product range gives architects the flexibility to bring their big ideas into life. We are passionate about helping to shape our cities, and to supply quality products and excellent service to all our clients.



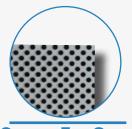
ST KILDA ROAD TOWER MELBOURNE VIC Total Façade Area: 4000m2 | Products DGU Glass with SOLARPRO SOLAR REFLECTIVE COATING



### PRODUCTS WE OFFER



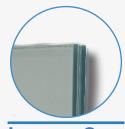
FLOAT GLASS



**CERAMIC FRIT GLASS** 



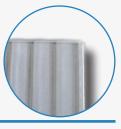
INSULATING GLASS



**LAMINATED GLASS** 



SOLAR REFLECTIVE
GLASS



PATTERN GLASS



**CUSTOMISED PRODUCTS** 



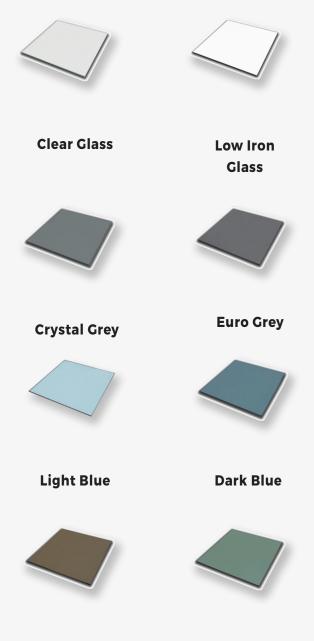
SOLAR PANELS



200 GEORGE STREET SYDNEY NSW

TOTAL FAÇADE AREA: 26113M2 | ARCHITECT: FRANCIS-JONES MOREHEN THORP (FJMT) | BUILDER: MIRVAC | FAÇADE CONTRACTOR: PERMASTEELISA | PRODUCTS: DGU TRIPLE LOW-E NATURAL CLR 65S-0 COATING ON LOW IRON; DGU DOUBLE LOW-E CHAMPAGNE 46-7 COATING ON CRYSTAL GREY; LOW IRON GLASS

### FLOAT GLASS



Invented by A. Pilkington in 1952, float glass is the process of manufacturing glass by 'floating' on molten tin. Initially, raw materials are transported into a large furnace to be melted at approximately 1500 °C. Once physically transformed, the molten glass is then transported through the delivery canal and floats onto an enclosed molten tin around 1100°C, where the glass is gradually uniformed and smoothed, before being cooled and ready to be cut.

From clear, low iron and our diverse range of tinted float glass options, our float range provides for great visual light transmittance, outstanding flatness and uniformity, and high precision control. This also ensures that consistency is maximised for DGU, laminated, and other curtain wall glass configurations.

Our float glass selection conforms to a multitude of international standards. These include the Australian Standard AS/NZS 4667, American Standard ASTMC1036-5, British Standard BS952, Japanese Standard JISR3202, and Chinese GB11614. Our international compliance ensures the monolithic glass you are receiving are of the highest quality, which can be used wherever that is required.

#### Standard sizes and dimensions

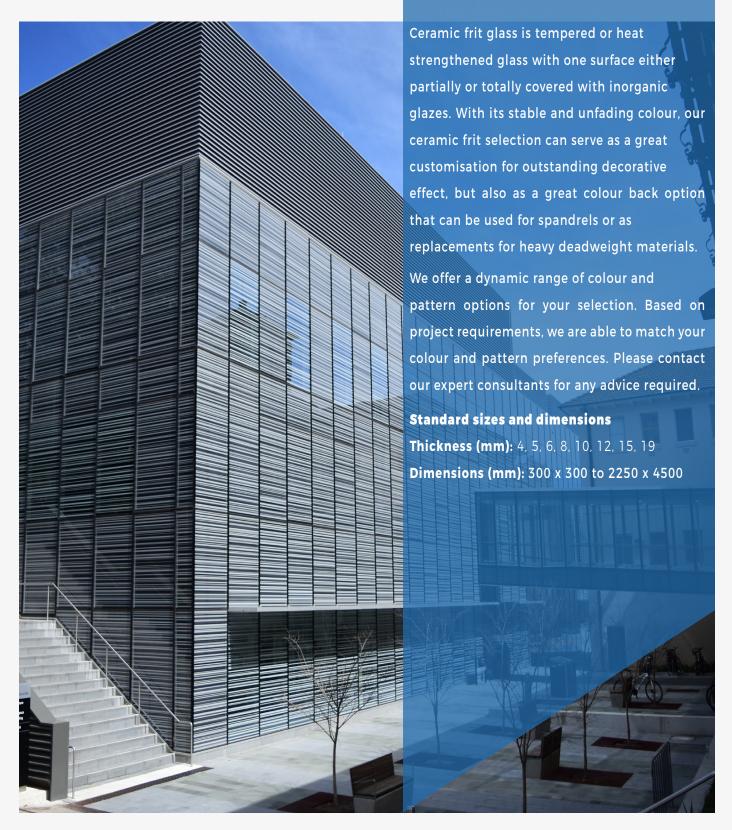
**Bronze** 

Thickness(mm): 3.0, 4.0, 5.0, 6.0, 8.0, 10.0, 12.0, 15.0, 19.0

Green

Dimensions(mm): 2440x3660

### CERAMIC FRIT GLASS



University of Sydney Nanoscience Institute, Sydney NSW

TOTAL FAÇADE AREA: 3000M2 | ARCHITECT: ARCHITECTUS | BUILDER: LEND LEASE | PRODUCTS: DGU DOUBLE LOW-E AQUA SHADE 60-0 COATING ON LOW IRON WITH WHITE STRIPPED CERAMIC FRIT PATTERN; LOW IRON GLASS WITH WHITE STRIPPED CERAMIC FRIT PATTERN

### INSULATING GLASS



863 Hay St Perth WA
Façade Area: 4000m2

ARCHITECTS: THE BUCHAN

GROUP

PATTERN

Builder: PROBUILD

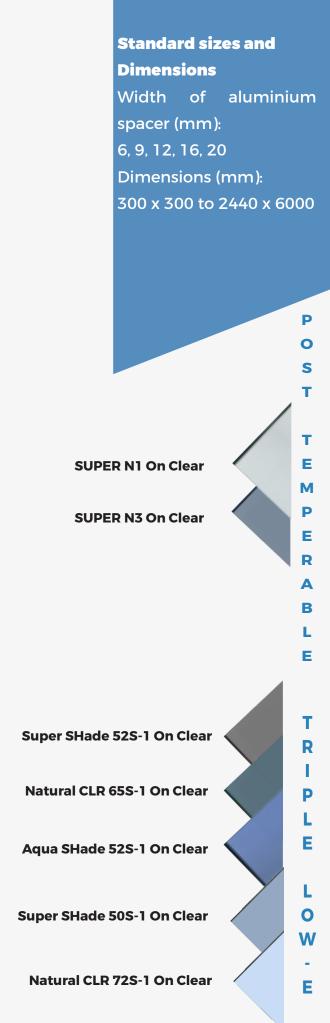
PRODUCTS: DGU DOUBLE
LOW-E NATURAL CLR 67-3
COATING ON EURO GREY; DGU
DOUBLE LOW-E PLATI SHADE
39-1 COATING ON CLEAR;
EURO GREY GLASS WITH GREY
DOTTED CERAMIC FRIT
PATTERN; CLEAR GLASS WITH
GREY DOTTED CERAMIC FRIT

Insulating glass comprises of two or more plies of glass that are separated with aluminium spacer fully filled with desiccant, and sides sealed with high strength sealant. This allows Insulating Glass Units (IGUs) to increase thermal performance by reducing heat gain or loss.

Annealed clear glass, tinted glass, solar reflective glass, Low-E glass, laminated glass, tempered glass, heat-strengthened glass and curved glass can all be used to form insulating glass according to demands.

At ASG, we seek to optimise building a dynamic range of insulating glazing that offers you the highest ratio of visual light transmittance against heat gain/ loss. From high transmittance products to our specialised aesthetic coatings, we deliver effective solutions tailored to satisfying contemporary architectural designs and ESD requirements.

# Ivory Gold 50-1 - On Clear **Purplelite 26-1 On Clear** EQ Pink 40-1 On Clear Fluro Pink 40-1 On Clear Aqualite 44-1 On Clear Champagne 46-1 On Clear **Goldlite 47-1 On Clear** Sky Blue 45-1 On Clear





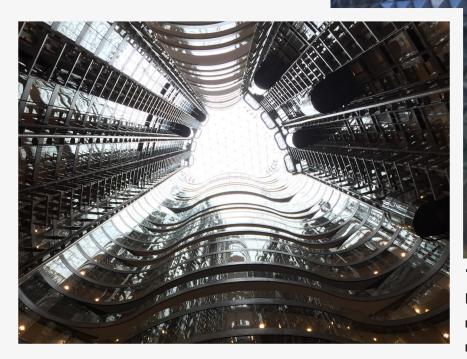
### LAMINATED GLASS

Laminated glass is a form of high performing safety glass, comprised of two or more plies of glass held together with a polyvinyl butyral interlayer (PVB) in between. The infusion of PVB and glass results in the glass being stuck onto the PVB interlayer even when damaged or broken.

Safety, high visual light transmittance, great thermal properties, excellent acoustic attributes and ultra-violet protection are some of the features that results in laminated glass being prominently used on shop fronts, high end residential and commercial buildings, motor vehicles, ships, and airplanes.

#### STANDARD SIZES AND DIMENSIONS

Thickness of PVB interlayer (mm): 0.38-3.04 Dimensions (mm): 300 x 300 to 2440 x 6000



1 BLIGH STREET SYDNEY NSW
PRODUCT: 18.28MM LOW IRON
LAMINATED GLASS WITH SGP
INTERLAYER

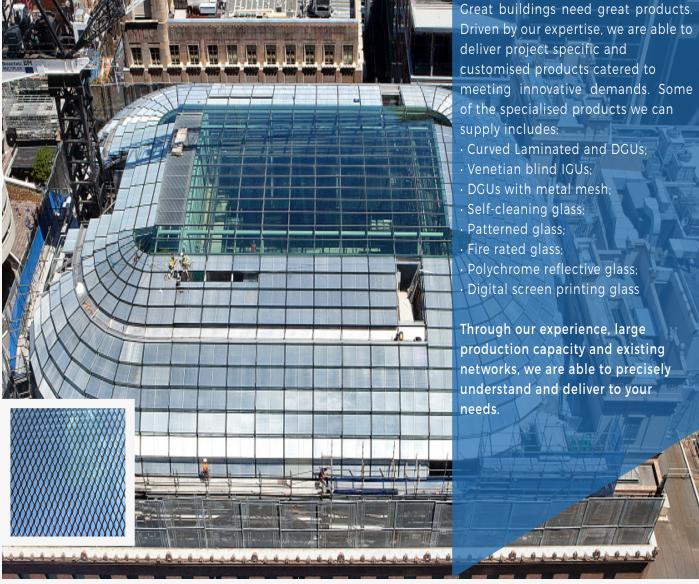


South Australian Health and Medical Research Institute, Adelaide SA

FACADE AREA: 4500M2 | ARCHITECT: WOODS BAGOT |

FACADE CONTRACTOR: YUANDA | PRODUCT: LAMINATED DGU DOUBLE LOW-E COOL SHADE 57-0 Coating on Low Iron

# **CUSTOMISED PRODUCTS**



#### 48-50 MARTIN PLACE SYDNEY NSW

FACADE AREA: 2900m2 | ARCHITECT: JOHNSON PILTON WALKER ARCHITECTS |

FAÇADE CONTRACTOR: SHARVAIN PROJECTS | PRODUCTS: LAMINATED TRIPLE GLAZED UNIT TRIPLE LOW-E NATURAL CLR 65S-0 coating on Low Iron with Customised Silver Metal Mesh; White Translucent Laminated Triple Glazed Unit with Customised Silver Metal Mesh: Triple Clear Sunergy Laminated Glass

#### **OTHER PRODUCTS**



**DGU With Copper Mesh** 

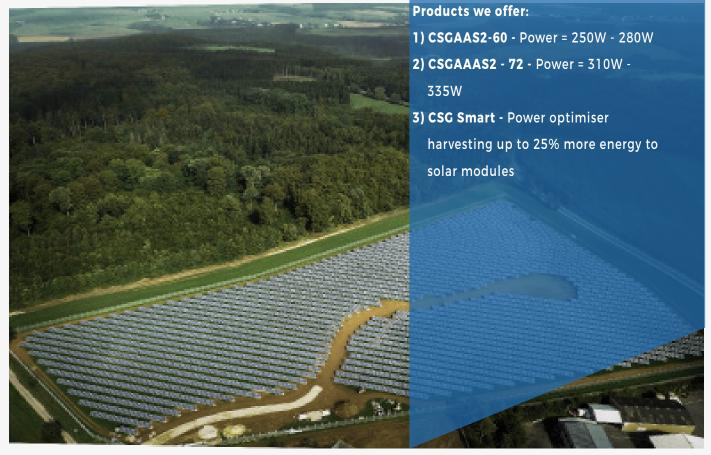


**DGU With Venetian Blinds** 



**DGU With 50MM Airspacer** 

### SOLAR PANEL



PROJECT: XM-5 SOLAR PARK | LOCATION: ARZFELD GERMANY PRODUCT: 1.5 MW



With several decades of experience in solar manufacturing, our ability to supply the entire PV chain including silicon materials, ingot, wafer, solar glass, solar cell and modules ensures excellent raw materials and production control and also adheres to ISO90001 & ISO14001 standards



Modules certified by TUV Rheinland and compliance to IEC612215, IEC 61730 standards. This includes salt mist corrosion test, fire test, ammonia resistance test, PID test, sand abrasion test and carbon footprint assessment in TUV.



Great performance capabilities even under cloudy conditions, bad weather and night time.



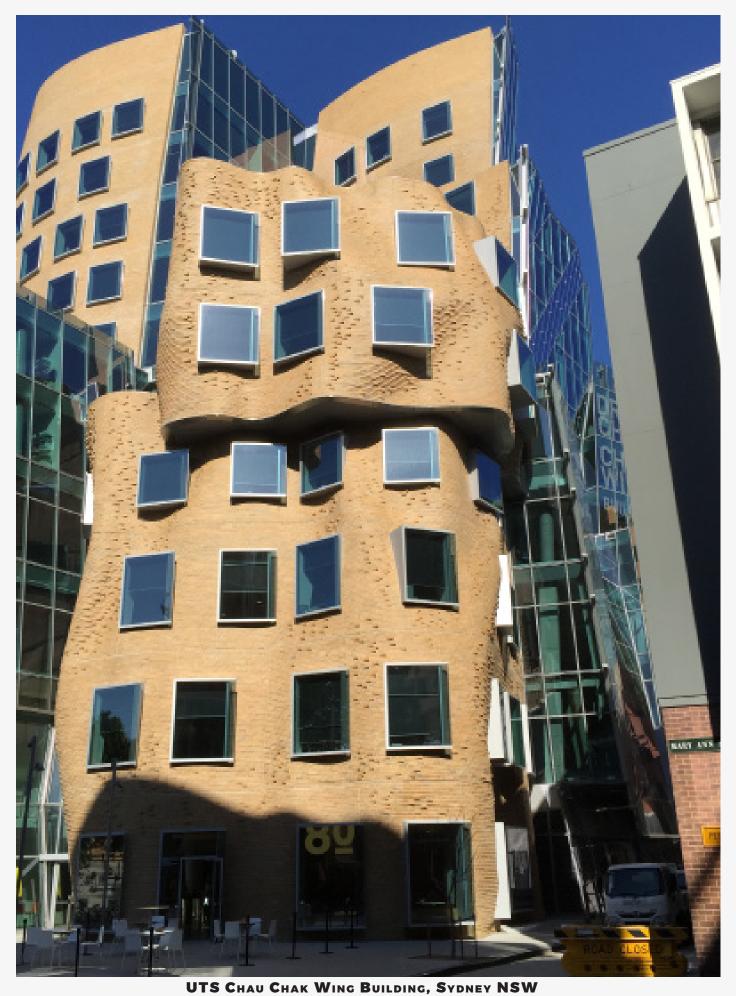
From power tolerance of 0 to +6w, we ensure up to 5.8% more power than conventional outputs.



We perform Electroluminescence testing before and after lamination in addition to finished products. This process guarantees the assurance of stringent quality standards assurance.

# PRODUCT DIMENSIONS SUMMARY

	Thickness (mm)	4 10	5 12	6 15	8 19		
Float Glass	Dimension (mm)		440*3660	·			
		<u> </u>					
		T					
	Thickness (mm)	4 10	5 12	6 15	8 19		
Low-E Glass	Dimension (mm)		to 2440*600				
	Thickness (mm)	4	5	6	8		
Solar Reflective Glass	THICKHESS (THITT)	10	12	15	19		
Glass	Dimension(mm)	300*300	to 2440*6000	0			
	Thickness(mm)	4	5	6	8		
Ceramic Frit Glass	Triicki iess(i i i i i i	10	12	15	19		
Glass	Dimension (mm)	300*300	to 2250*4500	ס			
	Thickness of	6	9	12	16	20	
Insulating Glass	Airspacer (mm)	700*700	to 2440*600	<u> </u>			
	Dimension (mm)	300 300	10 2440 6000	J			
	Thickness (mm)	4	5	6	8		
Tempered Glass	Dimension (mm)	10 300*800	12 to 2440*6000	15 n	19		
	Diffierision (min)	300 800	10 2440 0000				
		ı					
Heat Strengthened	Thickness (mm)	4	5	6	8		
Glass	Dimension (mm)	300*800	to 2440*6000	0			
	Thickness (mm)	4	5	6	8		
Heat Soak Test		10	12	15	19		
	Dimension (mm)	300*300	to 2440*6000	0			
	Thickness (mm)	5 12	6 15	8 19	10		
Curved	Dimension (mm)		to 2440*420				
Tempered Glass	Minimum Radius	1000					
	(mm)	1000					



FACADE AREA:6000M2 | ARCHITECT: GEHRY PARTNERS | BUILDER: LENDLEASE FAÇADE CONTRACTOR: SHARVAIN PROJECTS | PRODUCTS: DGU DOUBLE LOW-E PLATI SHADE 39-1 COATING ON CLEAR; WHITE CERAMIC DOTTED FRIT APPLICATION

# PROJECTS GALLERY - NEW SOUTH WALES



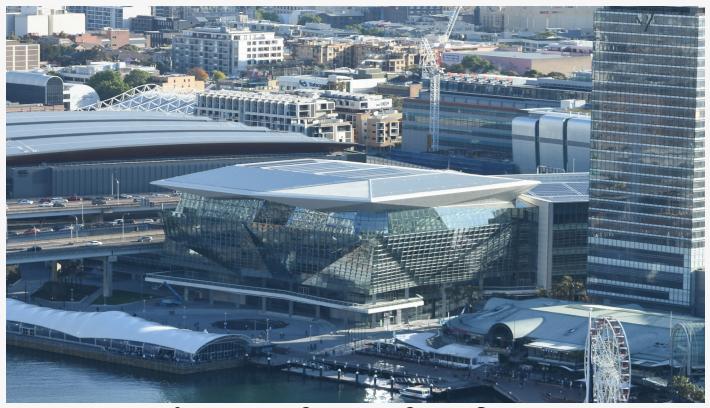
International towers Sydney, Barangaroo
Product: DGU Triple Low-E Neutral Coating On Clear Glass



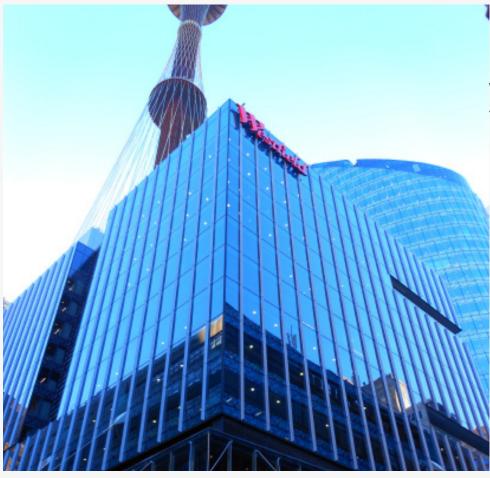
DARLING HARBOUR LIVE THEATRE, SYDNEY

Product: DGU Double Low-E High Transmittance Coating On Clear Glass

# PROJECTS GALLERY - NEW SOUTH WALES



International Convention Centre, Sydney Product: DGU Double Low-E High Transmittance Coating On Clear Glass



#### WESTFIELD CBD, SYDNEY

**Product:** Clear Sunergy Laminated Glass;

DGU Triple Low-E Neutral Coating On Dark Blue Glass

# PROJECTS GALLERY - NEW SOUTH WALES



177 Pacific Highway, North Sydney

**Product:** DGU Triple Low-E Neutral Coating On Crystal Grey Glass



ONE PARRAMATTA SQUARE, PARRAMATTA

Product: DGU Triple Low-E Coating On Neutral Coating Clear Glass

# PROJECTS GALLERY - VICTORIA



717 BOURKE STREET, MELBOURNE **Product:** DGU Double Silver Low-vE Coating on Clear Glass; Laminated Glass-Clear glass with Colourback coverage



699 BOURKE STREET, MELBOURNE **Product:** DGU Triple Low-E Neutral Coating with Clear glass

# PROJECTS GALLERY - VICTORIA



838 Collin Street, Melbourne

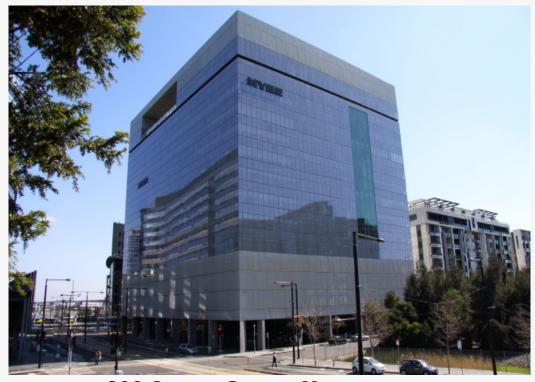
**Product**: DGU Triple Low-E Coating On Low Iron Glass



737 BOURKE STREET, MELBOURNE

Product: Grey glass with Ceramic Frit; DGU with Low-E Coating and Solar Reflective Coating on Clear glass

# PROJECTS GALLERY - VICTORIA



800 COLLINS STREET, MELBOURNE **Product:** DGU Double Low-E Neutral Coating With Clear Glass



## ROYAL CHILDREN'S HOSPITAL, MELBOURNE

**Product:** DGU Double Low-E Coating On Green Tinted Glass; Laminated Glass- Pink/White/Green Colourback With Performance Glass

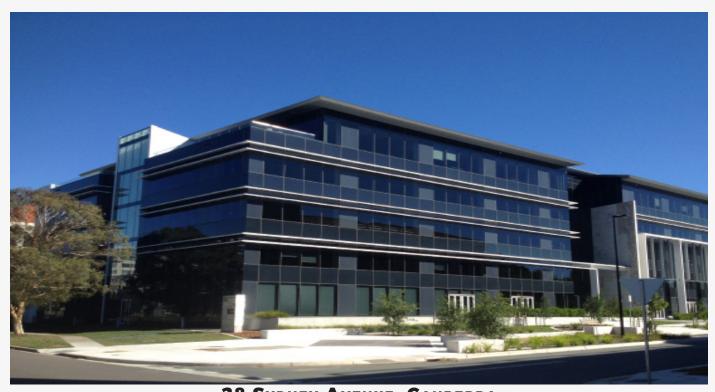
# PROJECTS GALLERY - AUSTRALIAN CAPITAL TERRITORY



18 MARCUS CLARKE, CANBERRA

Product: DGU Double Low-E Neutral Coating on Clear glass;

Clear Laminated glass



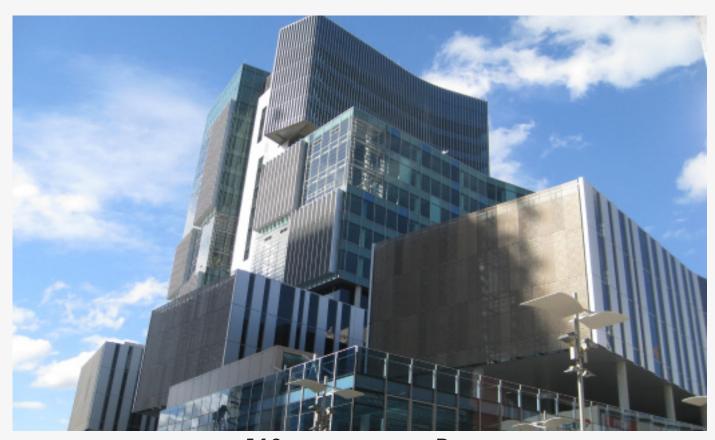
28 SYDNEY AVENUE, CANBERRA

Product: DGU Double Low-E Neutral Coating With Grey Tinted Glass

# PROJECTS GALLERY - WESTERN AUSTRALIA



CENTURY CITY, PERTH **Product:** DGU Double Low-E Coating On Dark Blue Tinted Glass



140 WILLIAM STREET, PERTH Product: Laminated Glass- Green/ Grey/ Blue Tinted Glass

# PROJECTS GALLERY - SOUTH AUSTRALIA



CITY CENTRAL TOWER, ADELAIDE

Product: DGU Double Low-E Coating With Green Tinted Glass



Product: DGU Triple Low-E Neutral Coating On Laminated Exterior With Ceramic Frit On Low Iron Glass

# Projects Gallery - Queensland



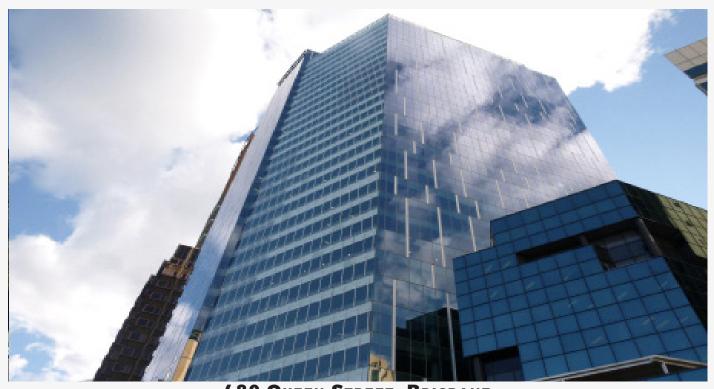
### 180 ANN STREET, BRISBANE

**Product:** DGU Double Silver Low-E coating with Grey, Green;

Clear

Glass; Ceramic Frit Glass;

Laminated Glass



480 QUEEN STREET, BRISBANE

Product: DGU Triple Low-E Neutral Coating On Clear Glass;

DGU Double Low-E Silver Coating On Clear Glass

#### MONOLITHIC FLOAT GLASS

		Visible	e Light (%	<b>6)</b>	Solar Ene	rgy (%)	U-Value	(w/m2.°C)		
No	Description Of Sample	Transmission	Refle	ectance	Transmission	Reflectance	Winter	Summer	Shading Coefficient	SHGC
_			Indoor	Outdoor			Night	Daylight		
1	5mm Clear	90	8	8	83	8	5.85	5.28	1.00	0.87
2	6mm Clear	90	8	8	82	8	5.82	5.25	0.99	0.86
3	8mm Clear	89	8	8	79	7	5.75	5.19	0.96	0.83
4	10mm Clear	88	8	8	76	7	5.68	5.14	0.94	0.82
5	12mm Clear	88	8	8	72	7	5.61	5.08	0.91	0.79
6	15mm Clear	88	8	8	70	7	5.52	5	0.90	0.78
7	19mm Clear	87	8	8	66	6	5.39	4.89	0.86	0.75
8	5mm Low Iron	91	9	9	88	8	5.86	5.28	1.03	0.90
9	6mm Low Iron	90	9	9	88	8	5.82	5.25	1.03	0.90
10	8mm Low Iron	90	9	9	87	8	5.75	5.19	1.02	0.89
11	10mm Low Iron	90	9	9	86	8	5.68	5.13	1.01	0.88
12	12mm Low Iron	90	9	9	86	9	5.62	5.08	1.01	0.88
13	15mm Low Iron	89	9	9	83	8	5.53	5.01	0.99	0.86
14	19mm Low Iron	89	9	9	81	9	5.41	4.9	0.97	0.85
15	5mm Green	77	7	7	48	6	5.85	5.28	0.72	0.62
16	6mm Green	74	7	7	43	5	5.81	5.25	0.68	0.59
17	8mm Green	70	7	7	36	5	5.75	5.19	0.63	0.55
18	10mm Green	65	7	7	30	5	5.68	5.13	0.59	0.51
19	5mm Grey	50	6	6	51	6	5.85	5.28	0.74	0.65
20	6mm Grey	44	5	5	45	5	5.81	5.25	0.70	0.61
21	8mm Grey	35	5	5	36	5	5.75	5.19	0.63	0.55
22	10mm Grey	27	5	5	29	5	5.68	5.13	0.58	0.50
23	5mm Dark Blue	61	6	6	52	6	5.84	5.26	0.75	0.65
24	6mm Dark Blue	56	6	5	47	5	5.8	5.23	0.71	0.62
25	8mm Dark Blue	48	5	5	38	5	5.73	5.18	0.65	0.56
26	10mm Dark Blue	41	5	5	31	5	5.67	5.12	0.60	0.52
27	5mm Crystal Grey	67	6	7	61	6	5.85	5.28	0.82	0.71
28	6mm Crystal Grey	63	6	6	56	6	5.81	5.25	0.79	0.68
29	8mm Crystal Grey	56	6	6	49	6	5.75	5.19	0.73	0.63
30	10mm Crystal Grey	50	6	6	42	5	5.68	5.13	0.68	0.59

#### Pyrolytic Low-E Glass

		Visible	Light (%	)	Solar Ene	rgy (%)	U-Value	(w/m2.°C)	]	
No	Description Of Sample		Refle	ctance			Winter	Summer	Shading	SHGC
		Transmission	Indoor	Outdoor	Transmission	Reflectance	Night	Daylight	Coefficient	
1	5mm Planibel	80	9	9	62	9	3.88	3.07	0.79	0.68
2	6mm Planibel	80	9	9	61	8	3.87	3.06	0.78	0.68
3	8mm Planibel	80	10	11	64	10	3.77	2.96	0.80	0.70
4	10mm Planibel	80	10	11	63	9	3.77	2.98	0.80	0.69
5	5mm Sunergy	72	8	9	54	11	4.19	3.44	0.72	0.63
6	6mm Sunergy	72	8	9	54	11	4.17	3.43	0.71	0.62
7	8mm Sunergy	72	8	9	52	10	4.1	3.36	0.70	0.61
8	10mm Sunergy	72	8	9	51	10	4.03	3.3	0.69	0.60

#### LAMINATED GLASS

		Visibl	e Light (%	6)	Solar Ene	rgy (%)	U-Value	e (w/m2.°C)		
No	Description Of Sample		Refle	ectance			Winter	Summer	Shading	SHGC
		Transmission	Indoor	Outdoor	Transmission	Reflectance	Night	Daylight	Coefficient	
1	5mm Clear/0.38mm PVB/5mm Clear	89	8	8	73	73	5.62	5.08	0.92	0.80
2	6mm Clear/1.52mm PVB/6mm Clear	87	8	8	70	70	5.39	4.89	0.89	0.78
3	5mm Low Iron/0.38mm PVB/5mm Low Iron	90	9	9	82	82	5.63	5.09	0.98	0.85
4	6mm Low Iron/1.52mm PVB/6mm Low Iron	90	9	9	79	79	5.39	4.89	0.95	0.83
5	5mm Green/0.38mm PVB/5mm Clear	76	7	7	44	44	5.62	5.08	0.69	0.60
6	6mm Green/1.52mm PVB/6mm Clear	71	7	7	36	36	5.39	4.89	0.63	0.55

#### LAMINATED GLASS

		Visibl	e Light (%	6)	Solar Ene	rgy (%)	U-Value (w/m2.°C			
No	Description Of Sample			ectance	Transmission	D-flt	Winter	Summer	Shading Coefficient	SHGC
		Transmission	Indoor	Outdoor	Iransmission	Reflectance	Night	Daylight	Coefficient	
7	5mm Grey/0.38mm PVB/5mm Clear	50	6	6	46	5	5.62	5.08	0.70	0.61
8	6mm Grey/1.52mm PVB/6mm Clear	44	5	5	38	5	5.39	4.89	0.65	0.56
9	5mm Dark Blue/0.38mm PVB/5mm Clear	60	6	6	47	5	5.62	5.08	0.71	0.62
10	6mm Dark Blue/1.52mm PVB/6mm Clear	55	6	6	39	5	5.39	4.89	0.66	0.57
11	5mm Crystal Grey/0.38mm PVB/5mm Clear	66	6	6	54	6	5.62	5.08	0.77	0.67
12	6mm Crystal Grey/1.52mm PVB/6mm Clear	62	6	6	48	6	5.39	4.89	0.72	0.63

#### PLANIBEL SOLAR REFLECTIVE LAMINDATED SERIES

		Visibl	e Light (%	<b>6)</b>	Solar Ene	rgy (%)	U-Value	(w/m2.°C)		
No	Description Of Sample	Transmission		ectance	Transmission	Reflectance	Winter	Summer	Shading Coefficient	SHGC
		Trunsmission	Indoor	Outdoor			Night	Daylight		
13	5mm Clear/0.38mm PVB/5mm Planibel#4	81	10	11	61	8	3.77	3.00	0.78	0.68
14	6mm Clear/1.52mm PVB/6mm Planibel#4	78	9	9	54	7	3.66	2.92	0.71	0.62
15	6mm SolarPro 165 on Clear/1.52mm PVB/6mm Planibel#4	58	18	12	42	14	3.66	2.92	0.59	0.52
16	6mm SolarPro 154 on Clear/1.52mm PVB/6mm Planibel#4	49	16	13	33	11	3.66	2.92	0.52	0.46
17	6mm SolarPro 143 on Clear/1.52mm PVB/6mm Planibel#4	38	13	17	25	11	3.66	2.92	0.45	0.39
18	5mm Low Iron/0.38mm PVB/5mm Planibel#4	82	10	11	65	9	3.77	3.00	0.80	0.70
19	6mm Low Iron/1.52mm PVB/6mm Planibel#4	80	9	9	57	8	3.66	2.92	0.74	0.64
20	6mm SolarPro 065 on Low Iron/1.52mm PVB/6mm Planibel#4	61	19	12	50	19	3.66	2.92	0.65	0.56
21	6mm SolarPro 054 on Low Iron/1.52mm PVB/6mm Planibel#4	50	16	13	38	11	3.66	2.92	0.56	0.49
22	6mm SolarPro 043 on Low Iron/1.52mm PVB/6mm Planibel#4	39	13	18	28	11	3.66	2.92	0.48	0.41
23	5mm Green/0.38mm PVB/5mm Planibel#4	70	8	10	37	6	3.77	3.00	0.56	0.49
24	6mm Green/1.52mm PVB/6mm Planibel#4	65	7	8	30	5	3.66	2.92	0.52	0.45
25	6mm SolarPro 265 on Green/1.52mm PVB/6mm Planibel#4	48	14	11	23	8	3.66	2.92	0.44	0.39
26	6mm SolarPro 254 on Green/1.52mm PVB/6mm Planibel#4	40	12	12	29	7	3.66	2.92	0.41	0.36
27	6mm SolarPro 243 on Green/1.52mm PVB/6mm Planibel#4	31	11	17	14	7	3.66	2.92	0.37	0.32
28	5mm Grey/0.38mm PVB/5mm Planibel#4	45	6	9	36	6	3.77	3.00	0.56	0.49
29	6mm Grey/1.52mm PVB/6mm Planibel#4	39	5	7	29	5	3.66	2.92	0.49	0.43
30	6mm SolarPro 365 on Grey/1.52mm PVB/6mm Planibel#4	29	8	11	22	7	3.66	2.92	0.44	0.38
31	6mm SolarPro 354 on Grey/1.52mm PVB/6mm Planibel#4	24	7	12	18	6	3.66	2.92	0.40	0.35
32	6mm SolarPro 343 on Grey/1.52mm PVB/6mm Planibel#4	19	7	17	13	6	3.66	2.92	0.35	0.32
33	5mm Dark Blue/0.38mm PVB/5mm Planibel#4	55	7	9	38	6	3.77	3.00	0.58	0.51
34	6mm Dark Blue/1.52mm PVB/6mm Planibel#4	49	6	7	31	5	3.66	2.92	0.52	0.46
35	6mm SolarPro 565 on Dark Blue/1.52mm PVB/6mm Planibel#4	36	10	11	24	8	3.66	2.92	0.45	0.40
36	6mm SolarPro 554 on Dark Blue/1.52mm PVB/6mm Planibel#4	30	9	12	19	7	3.66	2.92	0.42	0.36
37	6mm SolarPro 543 on Dark Blue/1.52mm PVB/6mm Planibel#4	24	8	17	14	7	3.66	2.92	0.37	0.32
38	5mm Crystal Grey/0.38mm PVB/5mm Planibel#4	61	7	9	44	7	3.77	3.00	0.63	0.55
39	6mm Crystal Grey/1.52mm PVB/6mm Planibel#4	55	7	8	37	6	3.66	2.92	0.57	0.50
40	6mm SolarPro 765 on Crystal Grey/1.52mm PVB/6mm Planibel#	4 41	11	11	29	9	3.66	2.92	0.49	0.43
41	6mm SolarPro 754 on Crystal Grey/1.52mm PVB/6mm Planibel#	4 34	10	12	23	8	3.66	2.92	0.44	0.39
42	6mm SolarPro 743 on Crystal Grey/1.52mm PVB/6mm Planibel#	4 27	9	17	17	8	3.66	2.92	0.39	0.34

#### SUNERGY SOLAR REFLECTIVE LAMINATED SERIES

		Visible	e Light (%	6)	Solar Ene	rgy (%)	U-Value	(w/m2.°C)		
No	Description Of Sample		Refle	ectance			Winter	Summer	Shading Coefficient	SHGC
		Transmission	Indoor	Outdoor	Transmission	Reflectance	Night	Daylight	Coefficient	
1	5mm Clear/0.38mm PVB/5mm Sunergy#4	67	8	10	47	8	4.06	3.35	0.65	0.57
2	6mm Clear/1.52mm PVB/6mm Sunergy#4	66	8	10	44	7	3.94	3.26	0.63	0.55
3	6mm SolarPro 165 on Clear/1.52mm PVB/6mm Sunergy#4	52	18	11	37	16	3.94	3.26	0.56	0.49
4	6mm SolarPro 154 on Clear/1.52mm PVB/6mm Sunergy#4	44	15	12	30	12	3.94	3.26	0.51	0.44
5	6mm SolarPro 143 on Clear/1.52mm PVB/6mm Sunergy#4	34	13	16	22	12	3.94	3.26	0.44	0.39
6	5mm Low Iron/0.38mm PVB/5mm Sunergy#4	68	9	10	49	9	4.06	3.35	0.67	0.59
7	6mm Low Iron/1.52mm PVB/6mm Sunergy#4	68	9	10	47	8	3.94	3.26	0.66	0.58
8	6mm SolarPro 065 on Low Iron/1.52mm PVB/6mm Sunergy#4	52	19	12	41	19	3.94	3.26	0.58	0.5

#### SUNERGY SOLAR REFLECTIVE LAMINATED SERIES

		Visibl	e Light (%	5)	Solar Ene	rgy (%)	U-Value	(w/m2.°C)		
No	Description Of Sample	Transmission		ctance	Transmission	Deflectance	Winter	Summer	Shading Coefficient	SHGC
		Transmission	Indoor	Outdoor	Transmission	Reflectance	Night	Daylight		
9	6mm SolarPro 054 on Low Iron/1.52mm PVB/6mm Sunergy#4	43	16	13	32	12	3.94	3.26	0.52	0.45
10	6mm SolarPro 043 on Low Iron/1.52mm PVB/6mm Sunergy#4	34	13	17	24	11	3.94	3.26	0.45	0.39
11	5mm Green/0.38mm PVB/5mm Sunergy#4	61	7	8	30	6	4.06	3.35	0.52	0.46
12	6mm Green/1.52mm PVB/6mm Sunergy#4	56	7	10	26	5	3.94	3.26	0.49	0.42
13	6mm SolarPro 265 on Green/1.52mm PVB/6mm Sunergy#4	43	14	11	20	8	3.94	3.26	0.44	0.38
14	6mm SolarPro 254 on Green/1.52mm PVB/6mm Sunergy#4	36	12	11	17	7	3.94	3.26	0.41	0.36
15	6mm SolarPro 243 on Green/1.52mm PVB/6mm Sunergy#4	28	10	15	13	7	3.94	3.26	0.38	0.33
16	5mm Grey/0.38mm PVB/5mm Sunergy#4	39	6	7	29	6	4.06	3.35	0.51	0.45
17	6mm Grey/1.52mm PVB/6mm Sunergy#4	35	5	7	25	6	3.94	3.26	0.49	0.42
18	6mm SolarPro 365 on Grey/1.52mm PVB/6mm Sunergy#4	26	8	10	20	8	3.94	3.26	0.43	0.38
19	6mm SolarPro 354 on Grey/1.52mm PVB/6mm Sunergy#4	21	7	11	16	6	3.94	3.26	0.4	0.35
20	6mm SolarPro 343 on Grey/1.52mm PVB/6mm Sunergy#4	16	7	15	12	6	3.94	3.26	0.37	0.32
21	5mm Dark Blue/0.38mm PVB/5mm Sunergy#4	48	6	8	31	6	4.06	3.35	0.53	0.46
22	6mm Dark Blue/1.52mm PVB/6mm Sunergy#4	42	6	8	26	5	3.94	3.26	0.49	0.42
23	6mm SolarPro 565 on Dark Blue/1.52mm PVB/6mm Sunergy#4	32	10	10	21	8	3.94	3.26	0.45	0.39
24	6mm SolarPro 554 on Dark Blue/1.52mm PVB/6mm Sunergy#4	27	9	11	17	7	3.94	3.26	0.41	0.36
25	6mm SolarPro 543 on Dark Blue/1.52mm PVB/6mm Sunergy#4	21	8	15	13	7	3.94	3.26	0.38	0.33
26	5mm Crystal Grey/0.38mm PVB/5mm Sunergy#4	53	6	8	36	7	4.06	3.35	0.57	0.49
27	6mm Crystal Grey/1.52mm PVB/6mm Sunergy#4	50	6	8	33	6	3.93	3.26	0.54	0.47
28	6mm SolarPro 765 on Crystal Grey/1.52mm PVB/6mm Sunergy#4	37	11	10	25	10	3.94	3.26	0.47	0.41
29	6mm SolarPro 754 on Crystal Grey/1.52mm PVB/6mm Sunergy#4	31	10	11	20	8	3.94	3.26	0.44	0.38
30	6mm SolarPro 743 on Crystal Grey/1.52mm PVB/6mm Sunergy#4	24	9	15	15	8	3.94	3.26	0.4	0.34

#### SOLAR REFLECTIVE SOLAR PRO SERIES

			Visibl	e Light (%	6)	Solar Ene	rgy (%)	U-Value	(w/m2.°C)		
No	Description Of Sample	Reflective		Refle	ectance	<b>-</b>	D-flt	Winter	Summer	Shading Coefficient	SHGC
		Colour	Transmission	Indoor	Outdoor	Transmission	Reflectance	Night	Daylight	Coefficient	
1	6mm SolarPro 165 on Clear	Light Blue Grey	66	18	12	68	15	5.75	5.18	0.84	0.73
2	6mm SolarPro 154 on Clear	Blue Grey	56	16	13	52	11	5.61	5.03	0.72	0.63
3	6mm SolarPro 143 on Clear	Light Grey	43	13	19	39	11	5.19	4.58	0.61	0.53
4	6mm SolarPro 065 on Low Iron	Light Blue Grey	67	18	12	71	16	5.76	5.19	0.86	0.75
5	6mm SolarPro 054 on Low Iron	Blue Grey	56	16	13	55	12	5.61	5.04	0.75	0.65
6	6mm SolarPro 043 on Low Iron	Light Grey	44	14	19	41	12	5.19	4.58	0.62	0.54
7	6mm SolarPro 265 on Green	Blue Green	55	14	11	33	8	5.76	5.19	0.59	0.52
8	6mm SolarPro 254 on Green	Blue Green	46	12	12	26	7	5.61	5.04	0.54	0.47
9	6mm Solarpro 243 on Green	Green	36	10	19	20	7	5.19	4.58	0.47	0.41
10	6mm SolarPro 365 on Grey	Grey	33	8	10	36	7	5.76	5.19	0.62	0.54
11	6mm SolarPro 354 on Grey	Grey	27	7	12	28	6	5.61	5.04	0.55	0.48
12	6mm SolarPro 343 on Grey	Grey	21	7	18	21	6	5.19	4.58	0.48	0.42
13	6mm Solarpro 565 on Dark Blue	Blue	41	10	11	37	8	5.76	5.19	0.63	0.54
14	6mm Solarpro 554 on Dark Blue	Blue	35	9	12	29	7	5.61	5.04	0.56	0.49
15	6mm SolarPro 543 on Dark Blue	Blue	27	8	18	22	7	5.19	4.58	0.49	0.42
16	6mm SolarPro 765 on Crystal Grey	Light Grey	47	11	11	45	9	5.76	5.19	0.68	0.59
17	6mm SolarPro 754 on Crystal Grey	Light Grey	39	10	12	35	8	5.61	5.04	0.6	0.53
18	6mm SolarPro 743 on Crystal Grey	Light Grey	30	9	18	26	8	5.19	4.58	0.52	0.45

INSULATING GLASS -SUPER TEMPERABLE LOW-E SERIES MAKEUP: 6MM SUBSTRATE (LOW E#2) +12MM AIRSPACER ]+6MM CLEAR

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			Visibl	e Light (9	6)	Solar Ene	rgy (%)	U-Value	(w/m2.°C)		
No	Description Of Sample	Reflective		Refl	ectance			Winter	Summer	Shading	SHGC
		Colour	Transmission	Indoor	Outdoor	Transmission	Reflectance	Night	Daylight	Coefficient	
1	6mm Super N1#2 on Clear	Neutral	78	12	12	54	24	1.84	1.84	0.68	0.59
2	6mm Super N3#2 on Clear	Neutral	55	14	11	35	20	1.84	1.84	0.48	0.42
3	6mm Super N1#2 on Low Iron	Neutral	79	12	12	56	27	1.84	1.84	0.71	0.62
4	6mm Super N3#2 on Low Iron	Neutral	57	15	12	40	24	1.84	1.84	0.51	0.44

#### **INSULATING GLASS - SUPER TEMPERABLE LOW-E SERIES**

#### MAKEUP: 6MM SUBSTRATE (LOW E#2) +12MM AIRSPACER ]+6MM CLEAR

			Visib	e Light (%	6)	Solar Ene	rgy (%)	U-Value	(w/m2.°C)		
No	Description Of Sample	Reflective Colour			ectance			Winter	Summer	Shading Coefficient	SHGC
		<b>301041</b>	Transmission	Indoor	Outdoor	Transmission	Reflectance	Night	Daylight	Coefficient	
5	6mm Super N1#2 on Green	Green	65	10	11	30	8	1.84	1.84	0.44	0.39
6	6mm Super N3#2 on Green	Green	46	11	10	22	9	1.84	1.84	0.34	0.3
7	6mm Super N1#2 on Grey	Grey	39	6	10	28	11	1.84	1.84	0.42	0.37
8	6mm Super N3#2 on Grey	Grey	28	7	10	19	10	1.84	1.84	0.32	0.28
9	6mm Super N1#2 on Dark Blue	Blue	49	7	10	31	10	1.84	1.84	0.45	0.39
10	6mm Super N3#2 on Dark Blue	Blue	35	8	10	21	10	1.84	1.84	0.34	0.29
11	6mm Super N1#2 on Crystal Grey	Light Grey	55	8	11	36	13	1.84	1.84	0.51	0.44
12	6mm Super N3#2 on Crystal Grey	Light Grey	39	9	10	25	12	1.84	1.84	0.38	0.33

#### **INSULATING GLASS - DOUBLE LOW-E SERIES**

#### MAKEUP: 6MM SUBSTRATE (LOW E#2) +12MM AIRSPACER ]+6MM CLEAR

			Vicibl	le Light (%		Solar Ene	-		(w/m2.°C)	ACER J. OMI	JELAK
No	Description Of Sample	Reflective	VISIDI		ectance	Solar Ene	rgy (70)	Winter	Summer	Shading	SHGC
	beschiption of sample	Colour	Transmission	Indoor	Outdoor	Transmission	Reflectance	Night	Daylight	Coefficient	51100
1	6mm Natural CLR 78 - 1 on Clear	Neutral	68	11	12	34	33	1.67	1.62	0.44	0.39
2	6mm Natural CLR 67 -1 on Clear	Neutral	61	11	12	31	33	1.69	1.64	0.41	0.36
3	6mm Aqua SHade 69-1 on Clear	Light Blue	58	14	13	28	35	1.69	1.64	0.37	0.32
4	6mm Aqua SHade 59-1 on Clear	Light Blue	54	17	14	25	39	1.65	1.59	0.33	0.29
5	6mm Cool SHade 60-1 on Clear	Platinum	51	12	11	24	31	1.68	1.64	0.34	0.29
6	6mm Cool SHade 57 - 1 on Clear	Light Grey	53	14	11	25	32	1.69	1.65	0.35	0.30
7	6mm Cool SHade 52 - 1 on Clear	Light Grey	48	14	11	22	31	1.67	1.62	0.32	0.28
8	6mm Plati SHade 61-1 on Clear	Silver Grey	53	20	14	24	38	1.67	1.62	0.33	0.28
9	6mm Plati SHade 39-1 on Clear	Silver Grey	40	20	15	18	35	1.69	1.64	0.26	0.23
10	6mm Natural CLR 78 -0 on Low Iron	Neutral	69	11	13	36	40	1.67	1.62	0.45	0.40
11	6mm Natural CLR 67 - 0 on Low Iron	Neutral	64	11	12	34	47	1.69	1.64	0.43	0.38
12	6mm Aqua SHade 69-0 on Low Iron	Light Blue	61	14	13	30	44	1.69	1.65	0.38	0.33
13	6mm Aqua SHade 59 - 0 on Low Iron	Light Blue	55	17	15	26	44	1.65	1.59	0.34	0.30
14	6mm Cool SHade 60-0 on Low Iron	Platinum	53	13	12	27	39	1.69	1.65	0.35	0.30
15	6mm Cool SHade 57 - 0 on Low Iron	Light Grey	54	15	12	27	39	1.69	1.65	0.35	0.31
16	6mm Cool SHade 52-0 on Low Iron	Light Grey	49	14	12	24	37	1.67	1.62	0.33	0.29
17	6mm Plati SHade 61-0 on Low Iron	Silver Grey	55	20	15	26	44	1.67	1.62	0.33	0.29
18	6mm Plati SHade 39-0 on Low Iron	Silver Grey	41	20	16	19	44	1.69	1.64	0.26	0.23
19	6mm Natural CLR 78-2 on Green	Green	56	9	11	23	9	1.67	1.62	0.35	0.30
20	6mm Natural CLR 67-2 on Green	Green	52	9	11	22	9	1.69	1.64	0.33	0.29
21	6mm Aqua SHade 69-2 on Green	Green	47	10	13	19	10	1.69	1.64	0.30	0.26
22	6mm Aqua SHade 59-2 on Green	Green	46	13	13	18	11	1.65	1.59	0.28	0.25
23	6mm Cool SHade 60-2 on Green	Green	41	10	11	17	9	1.69	1.64	0.27	0.24
24	6mm Cool SHade 57-2 on Green	Green	44	11	11	17	10	1.69	1.65	0.29	0.25
25	6mm Cool SHade 52-2 on Green	Green	40	11	11	16	9	1.67	1.62	0.27	0.24
26	6mm Plati SHade 61-2 on Green	Green	44	15	14	17	11	1.67	1.62	0.28	0.24
27	6mm Plati SHade 39-2 on Green	Green	34	16	15	13	12	1.69	1.64	0.23	0.20
28	6mm Natural CLR 78-3 on Grey	Grey	34	6	10	18	14	1.67	1.62	0.29	0.25
29	6mm Natural CLR 67-3 on Grey	Grey	31	6	10	18	15	1.69	1.64	0.28	0.24
30	6mm Aqua SHade 69-3 on Grey	Grey	29	7	12	15	15	1.69	1.64	0.25	0.22
31	6mm Aqua SHade 59-3 on Grey	Grey	27	8	13	14	17	1.65	1.59	0.23	0.20
32	6mm Cool SHade 60-3 on Grey	Grey	25	6	11	13	14	1.69	1.64	0.23	0.20
33	6mm Cool SHade 57-3 on Grey	Grey	26	7	10	13	14	1.69	1.65	0.24	0.21
34	6mm Cool SHade 52-3 on Grey	Grey	24	7	10	12	13	1.67	1.62	0.22	0.20
35	6mm Plati SHade 61-3 on Grey	Grey	26	8	13	13	15	1.67	1.62	0.23	0.20
36	6mm Plati SHade 61-3 on Grey	Grey	20	8	14	9	15	1.69	1.64	0.19	0.17
37	6mm Natural CLR 78-5 on Dark Blue	Blue	43	7	10	21	12	1.67	1.62	0.32	0.28
38	6mm Natural CLR 67-5 on Dark Blue	Blue	39	7	11	20	13	1.69	1.64	0.31	0.27
39	6mm Aqua SHade 69-5 on Dark Blue	Blue	36	8	12	17	14	1.69	1.64	0.28	0.24

#### INSULATING GLASS - DOUBLE LOW-E SERIES

#### MAKEUP: 6MM SUBSTRATE (LOW E#2) +12MM AIRSPACER ]+6MM CLEAR

Description Of Sample	Reflective Colour	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)			
		Transmission	Reflectance			- a .	Winter	Summer	Shading	SHGC
			Indoor	Outdoor		Reflectance	Night	Daylight	Coefficient	
6mm Aqua SHade 59-5 on Dark Blue	Blue	35	9	13	16	16	1.65	1.59	0.26	0.23
6mm Cool SHade 60-5 on Dark Blue	Blue	32	8	11	15	13	1.69	1.64	0.26	0.22
6mm Cool SHade 57-5 on Dark Blue	Blue	33	8	10	15	13	1.69	1.65	0.27	0.23
6mm Cool SHade 52-5 on Dark Blue	Blue	30	8	10	14	12	1.67	1.62	0.25	0.22
6mm Plati SHade 61-5 on Dark Blue	Blue	33	11	13	15	14	1.67	1.62	0.25	0.22
6mm Plati SHade 39-5 on Dark Blue	Blue	25	11	14	11	14	1.69	1.64	0.21	0.19
6mm Natural CLR 78-7 on Crystal Grey	Light Grey	48	8	11	24	17	1.67	1.62	0.35	0.31
6mm Natural CLR 67-7 on Crystal Grey	Light Grey	44	9	11	23	19	1.69	1.64	0.33	0.29
6mm Aqua SHade 69-7 on Crystal Grey	Light Grey	41	9	12	20	18	1.69	1.64	0.30	0.26
6mm Aqua SHade 59-7 on Crystal Grey	Light Grey	39	11	13	19	22	1.65	1.59	0.28	0.24
6mm Cool SHade 60-7 on Crystal Grey	Light Grey	36	9	11	17	16	1.69	1.64	0.28	0.24
6mm Cool SHade 57-7 on Crystal Grey	Light Grey	37	9	10	17	17	1.69	1.65	0.28	0.25
6mm Cool SHade 52-7 on Crystal Grey	Light Grey	34	9	10	16	16	1.67	1.62	0.27	0.23
6mm Plati SHade 61-7 on Crystal Grey	Light Grey	38	12	13	17	19	1.67	1.62	0.27	0.23
6mm Plati Shade 39-7 on Crystal Grey	Light Grey	28	13	14	13	20	1.69	1.64	0.22	0.20
	6mm Aqua SHade 59-5 on Dark Blue 6mm Cool SHade 60-5 on Dark Blue 6mm Cool SHade 57-5 on Dark Blue 6mm Cool SHade 52-5 on Dark Blue 6mm Plati SHade 61-5 on Dark Blue 6mm Plati SHade 39-5 on Dark Blue 6mm Plati SHade 39-5 on Dark Blue 6mm Natural CLR 78-7 on Crystal Grey 6mm Natural CLR 67-7 on Crystal Grey 6mm Aqua SHade 69-7 on Crystal Grey 6mm Cool SHade 59-7 on Crystal Grey 6mm Cool SHade 57-7 on Crystal Grey 6mm Cool SHade 57-7 on Crystal Grey 6mm Cool SHade 57-7 on Crystal Grey 6mm Cool SHade 52-7 on Crystal Grey	6mm Aqua SHade 59-5 on Dark Blue 6mm Cool SHade 60-5 on Dark Blue 6mm Cool SHade 57-5 on Dark Blue 6mm Cool SHade 52-5 on Dark Blue 6mm Cool SHade 52-5 on Dark Blue 6mm Plati SHade 61-5 on Dark Blue 6mm Plati SHade 61-5 on Dark Blue 6mm Plati SHade 39-5 on Dark Blue 8lue 6mm Plati SHade 39-5 on Dark Blue 8lue 6mm Natural CLR 78-7 on Crystal Grey 6mm Natural CLR 67-7 on Crystal Grey Light Grey 6mm Aqua SHade 69-7 on Crystal Grey Light Grey 6mm Cool SHade 59-7 on Crystal Grey 6mm Cool SHade 57-7 on Crystal Grey Light Grey 6mm Cool SHade 52-7 on Crystal Grey Light Grey 6mm Cool SHade 52-7 on Crystal Grey Light Grey 6mm Cool SHade 52-7 on Crystal Grey Light Grey	Description Of SampleReflective ColourTransmission6mm Aqua SHade 59-5 on Dark BlueBlue356mm Cool SHade 60-5 on Dark BlueBlue326mm Cool SHade 57-5 on Dark BlueBlue336mm Cool SHade 52-5 on Dark BlueBlue306mm Plati SHade 61-5 on Dark BlueBlue336mm Plati SHade 39-5 on Dark BlueBlue256mm Natural CLR 78-7 on Crystal GreyLight Grey486mm Natural CLR 67-7 on Crystal GreyLight Grey446mm Aqua SHade 69-7 on Crystal GreyLight Grey396mm Cool SHade 59-7 on Crystal GreyLight Grey366mm Cool SHade 57-7 on Crystal GreyLight Grey376mm Cool SHade 52-7 on Crystal GreyLight Grey346mm Plati SHade 61-7 on Crystal GreyLight Grey346mm Plati SHade 61-7 on Crystal GreyLight Grey34	Description Of Sample         Reflective Colour         Reflective Indoor           6mm Aqua SHade 59-5 on Dark Blue         Blue         35         9           6mm Cool SHade 60-5 on Dark Blue         Blue         32         8           6mm Cool SHade 57-5 on Dark Blue         Blue         33         8           6mm Cool SHade 52-5 on Dark Blue         Blue         30         8           6mm Plati SHade 61-5 on Dark Blue         Blue         33         11           6mm Plati SHade 39-5 on Dark Blue         Blue         25         11           6mm Natural CLR 78-7 on Crystal Grey         Light Grey         48         8           6mm Natural CLR 67-7 on Crystal Grey         Light Grey         44         9           6mm Aqua SHade 69-7 on Crystal Grey         Light Grey         39         11           6mm Cool SHade 60-7 on Crystal Grey         Light Grey         36         9           6mm Cool SHade 57-7 on Crystal Grey         Light Grey         37         9           6mm Cool SHade 52-7 on Crystal Grey         Light Grey         34         9           6mm Plati SHade 61-7 on Crystal Grey         Light Grey         38         12	Description Of Sample         Reflective Colour         Reflective Transmission         Reflectance           6mm Aqua SHade 59-5 on Dark Blue         Blue         35         9         13           6mm Cool SHade 60-5 on Dark Blue         Blue         32         8         11           6mm Cool SHade 57-5 on Dark Blue         Blue         33         8         10           6mm Cool SHade 52-5 on Dark Blue         Blue         30         8         10           6mm Plati SHade 61-5 on Dark Blue         Blue         33         11         13           6mm Plati SHade 39-5 on Dark Blue         Blue         25         11         14           6mm Natural CLR 78-7 on Crystal Grey         Light Grey         48         8         11           6mm Natural CLR 78-7 on Crystal Grey         Light Grey         44         9         11           6mm Aqua SHade 69-7 on Crystal Grey         Light Grey         39         11         13           6mm Cool SHade 59-7 on Crystal Grey         Light Grey         36         9         11           6mm Cool SHade 57-7 on Crystal Grey         Light Grey         37         9         10           6mm Cool SHade 52-7 on Crystal Grey         Light Grey         34         9         10 <td< td=""><td>Description Of Sample         Reflective Colour         Reflectance Indoor         Reflectance Outdoor         Transmission         Transmission         Transmission         Transmission           6mm Aqua SHade 59-5 on Dark Blue         Blue         35         9         13         16           6mm Cool SHade 60-5 on Dark Blue         Blue         32         8         11         15           6mm Cool SHade 57-5 on Dark Blue         Blue         33         8         10         15           6mm Plati SHade 61-5 on Dark Blue         Blue         33         11         13         15           6mm Plati SHade 39-5 on Dark Blue         Blue         25         11         14         11           6mm Natural CLR 78-7 on Crystal Grey         Light Grey         48         8         11         24           6mm Natural CLR 67-7 on Crystal Grey         Light Grey         44         9         11         23           6mm Aqua SHade 69-7 on Crystal Grey         Light Grey         39         11         13         19           6mm Cool SHade 60-7 on Crystal Grey         Light Grey         36         9         11         17           6mm Cool SHade 57-7 on Crystal Grey         Light Grey         37         9         10         17      &lt;</td><td>  Reflective Colour   Transmission   Reflectance   Indoor   Outdoor   Transmission   Reflectance   Indoor   Outdoor   Transmission   Reflectance   Indoor   Outdoor   Outdoor  </td><td>  Page</td><td>  Part   Part  </td><td>  Page   Page  </td></td<>	Description Of Sample         Reflective Colour         Reflectance Indoor         Reflectance Outdoor         Transmission         Transmission         Transmission         Transmission           6mm Aqua SHade 59-5 on Dark Blue         Blue         35         9         13         16           6mm Cool SHade 60-5 on Dark Blue         Blue         32         8         11         15           6mm Cool SHade 57-5 on Dark Blue         Blue         33         8         10         15           6mm Plati SHade 61-5 on Dark Blue         Blue         33         11         13         15           6mm Plati SHade 39-5 on Dark Blue         Blue         25         11         14         11           6mm Natural CLR 78-7 on Crystal Grey         Light Grey         48         8         11         24           6mm Natural CLR 67-7 on Crystal Grey         Light Grey         44         9         11         23           6mm Aqua SHade 69-7 on Crystal Grey         Light Grey         39         11         13         19           6mm Cool SHade 60-7 on Crystal Grey         Light Grey         36         9         11         17           6mm Cool SHade 57-7 on Crystal Grey         Light Grey         37         9         10         17      <	Reflective Colour   Transmission   Reflectance   Indoor   Outdoor   Transmission   Reflectance   Indoor   Outdoor   Transmission   Reflectance   Indoor   Outdoor   Outdoor	Page	Part   Part	Page   Page

#### **INSULATING GLASS -TRIPLE LOW-E SERIES**

#### MAKEUP: 6MM SUBSTRATE (LOW E#2) +12MM AIRSPACER ]+6MM CLEAR

					MAKEUP:	6 <sub>MM</sub> SUBSTR	ATE (LOW E	#2)+12	2MM AIRSP	ACER ]+6M	M CLEAR
No	Description Of Sample		Visib	Visible Light (%)		Solar Energy (%)		U-Value (w/m2.°C)		a	
		Reflective Colour	Transmission		ectance	Transmission	Reflectance	Winter Night	Summer Daylight	Shading Coefficient	SHGC
	Crown Network CLD FOC 1 on Clean			Indoor	Outdoor					0.75	0.77
1	6mm Natural CLR 72S-1 on Clear	Neutral	66	11	12	28	38	1.67	1.62	0.36	0.31
2	6mm Natural CLR 65S-1 on Clear	Neutral Green	62	12	12	25	38	1.65	1.59	0.33	0.28
3	6mm Aqual SHade 52S-1 on Clear	Light Blue	51	16	16	20	40	1.65	1.59	0.27	0.23
4	6mm Super SHade 52S-1 on Clear	Neutral Grey	53	13	13	22	39	1.65	1.59	0.30	0.26
5	6mm Super SHade 50S-1 on Clear	Blue Grey	48	20	19	19	42	1.65	1.59	0.26	0.23
6	6mm Natural CLR 72S-0 on Low Iron	Neutral	68	11	12	30	49	1.67	1.62	0.36	0.32
7	6mm Natural CLR 65S-0 on Low Iron	Neutral Green	64	12	12	26	48	1.65	1.59	0.33	0.29
8	6mm Aqua SHade 52S-0 on Low Iron	Light Blue	53	17	16	21	51	1.65	1.59	0.27	0.23
9	6mm Super SHade 52S-0 on Low Iron	Neutral Grey	55	14	13	23	49	1.65	1.59	0.30	0.26
10	6mm Super SHade 50S-0 on Low Iron	Blue Grey	50	20	19	20	51	1.65	1.59	0.26	0.23
11	6mm Natural CLR 72S-2 on Green	Green	53	9	11	20	10	1.67	1.62	0.30	0.26
12	6mm Natural CLR 65S-2 on Green	Green	50	9	12	18	10	1.65	1.59	0.28	0.25
13	6mm Aqua SHade 52S-2 on Green	Green	41	12	15	14	11	1.65	1.59	0.24	0.21
14	6mm Super SHade 52S-2 on Green	Green	42	10	13	16	10	1.65	1.59	0.26	0.22
15	6mm Super SHade 50S-2 on Green	Green	39	15	18	14	12	1.65	1.59	0.24	0.21
16	6mm Natural CLR 72S-3 on Grey	Grey	33	6	10	14	16	1.67	1.62	0.24	0.21
17	6mm Natural CLR 65S-3 on Grey	Grey	30	6	11	13	16	1.65	1.59	0.22	0.19
18	6mm Aqua SHade 52S-3 on Grey	Grey	25	7	15	10	17	1.65	1.59	0.19	0.17
19	6mm Super SHade 52S-3 on Grey	Grey	26	7	12	11	16	1.65	1.59	0.21	0.18
20	6mm Super SHade 50S-3 on Grey	Grey	24	8	18	10	17	1.65	1.59	0.19	0.16
21	6mm Natural CLR 72S-5 on Dark Blue	Blue	41	7	11	17	15	1.67	1.62	0.28	0.24
22	6mm Natural CLR 65S-5 on Dark Blue	Blue	38	7	11	16	15	1.65	1.59	0.25	0.22
23	6mm Aqua SHade 52S-5 on Dark Blue	Blue	31	9	15	12	16	1.65	1.59	0.22	0.19
24	6mm Super SHade 52S-5 on Dark Blue	Blue	33	8	12	14	15	1.65	1.59	0.23	0.20
25	6mm Super SHade 50S-5 on Dark Blue	Blue	30	11	18	12	17	1.65	1.59	0.21	0.18
26	6mm Natural CLR 72S-7 on Crystal Grey	Light Grey	47	8	11	20	19	1.67	1.62	0.30	0.26
27	6mm Natural CLR 65S-7 on Crystal Grey	Light Grey	44	8	11	18	19	1.65	1.59	0.27	0.23
28	6mm Aqua SHade 52S-7 on Crystal Grey	Light Grey	36	10	15	14	20	1.65	1.59	0.23	0.20
29	6mm Super SHade 52S-7 on Crystal Grey	Light Grey	37	9	13	15	19	1.65	1.59	0.25	0.21
30	6mm Super SHade 50S-7 on Crystal Grey	Light Grey	34	12	18	14	21	1.65	1.59	0.22	0.19
								1.05			

#### INSULATING GLASS - VISUALITE LOW-E SERIES

#### MAKEUP: 6MM SUBSTRATE (LOW E#2) +12MM AIRSPACER ]+6MM CLEAR

	Description Of Sample	Reflective Colour	Visible Light (%)			Solar Energy (%)		U-Value (w/m2.°C)			
No			Transmission	Reflectance				Winter	Summer	Shading	SHGC
				Indoor	Outdoor	Transmission	Reflectance	Night	Daylight	Coefficient	
1	6mm Emeralite 43-1 on Clear	Emerald Green	41	19	13	23	25	1.75	1.72	0.33	0.29
2	6mm Aqualite 44-1 on Clear	Silver Blue	42	20	13	18	34	1.71	1.67	0.28	0.24
3	6mm Purplelite 26-1 on Clear	Purple	26	16	12	11	34	1.69	1.65	0.20	0.17
4	6mm EQ Pink 40-1 on Clear	Pinkish Red	37	19	13	17	38	1.69	1.64	0.25	0.21
5	6mm Fluro Pink 40-1 on Clear	Bright Pink	36	20	16	17	41	1.69	1.64	0.24	0.21
6	6mm Ivory Gold 50-1 on Clear	Light Gold	44	19	14	24	33	1.74	1.72	0.34	0.29
7	6mm Pewterlite 55-1 on Clear	Pewter	50	19	19	23	35	1.69	1.64	0.32	0.28
8	6mm Goldlite 47-1 on Clear	Gold	42	18	18	22	34	1.71	1.67	0.32	0.28
9	6mm Champagne 46-1 on Clear	Champagne	43	18	15	24	32	1.73	1.7	0.34	0.30
10	6mm Sky Blue 45-1 on Clear	Sky Blue	42	18	18	22	34	1.71	1.67	0.32	0.28

#### **TERMINOLOGY**

Visible Light Reflectance	The percentage of visible light that is reflected from the glass
Solar Transmittance	The percentage of ultravoilet visible & rear infrared energy (300-250mm) that is transmitted
Solar Reflective	The percentage of solar energy that is reflected from the glass surface
Shading Coefficient (SC)	The ratio of the solar heat gain through a given type of glass to the solar heat gain through a pane of 1/8 (3mm) clear glass under identical conditions. The lower the shading coefficient the lower the solar heat gain
U-Value	Based on standards a measure of the heat gain or loss through glass due to the difference

# **Our Certificates**

### **CSG Tianjin Factory Architectural Glass**



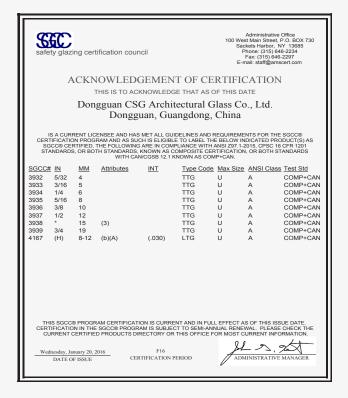


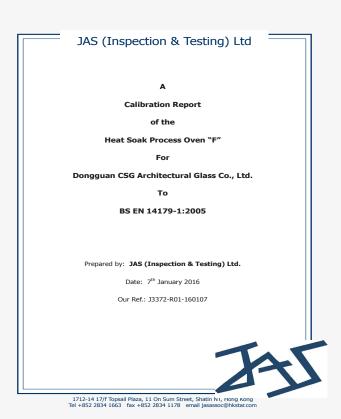


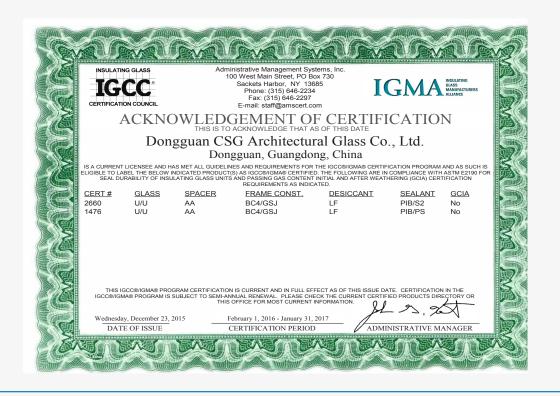


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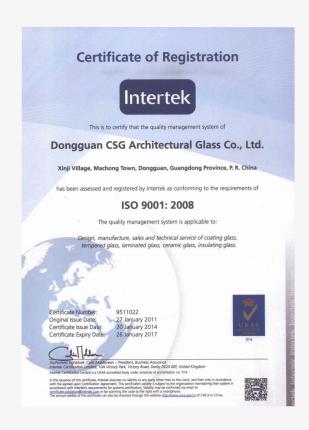




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